

=> file biosis caba caplus embase japio lifesci medline scisearch

=> e lee che hung robert/au

E1 1 LEE CHE HUNG DR/AU  
E2 3 LEE CHE HUNG R/AU  
E3 5 --> LEE CHE HUNG ROBERT/AU  
E4 1 LEE CHE MING/AU  
E5 5 LEE CHE NAN/AU  
E6 1 LEE CHE RUNG/AU  
E7 4 LEE CHE SUM/AU  
E8 1 LEE CHE TAI/AU  
E9 6 LEE CHE WAH/AU  
E10 1 LEE CHE WEI/AU  
E11 2 LEE CHE YIN/AU  
E12 1 LEE CHE YOUNG/AU

=> s e1-e3

L1 9 ("LEE CHE HUNG DR"/AU OR "LEE CHE HUNG R"/AU OR "LEE CHE HUNG ROBERT"/AU)

=> dup rem l1

PROCESSING COMPLETED FOR L1

L2 9 DUP REM L1 (0 DUPLICATES REMOVED)

=> d 1-

YOU HAVE REQUESTED DATA FROM 9 ANSWERS - CONTINUE? Y/(N):y

L2 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2009:426211 CAPLUS <<LOGINID::20091109>>

DN 150:421151

TI Methods for preparing complex multivalent immunogenic conjugates

IN \*\*\*Lee, Che-Hung Robert\*\*\*

PA The Government of the United States of America as Represented by the Secretary of the Department of, USA

SO U.S. Pat. Appl. Publ., 62pp., Cont.-in-part of Appl. No.

PCT/US2007/006627.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 20090092632	A1	20090409	US 2008-283894	20080915
	WO 2007109129	A2	20070927	WO 2007-US6627	20070316
	WO 2007109129	A3	20071108		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRAI US 2006-783490P P 20060317

WO 2007-US6627            A2            20070316  
 ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

L2    ANSWER 2 OF 9    CAPLUS    COPYRIGHT 2009 ACS on STN  
 AN    2007:1089566    CAPLUS <<LOGINID::20091109>>  
 DN    147:384016  
 TI    Methods for preparing complex multivalent immunogenic conjugates  
 IN    \*\*\*Lee, Che-Hung Robert\*\*\*  
 PA    United States Dept. of Health and Human Services, USA  
 SO    PCT Int. Appl., 99 pp.  
       CODEN: PIXXD2  
 DT    Patent  
 LA    English  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2007109129	A2	20070927	WO 2007-US6627	20070316
	WO 2007109129	A3	20071108		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				
	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
	GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,				
	KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN,				
	MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS,				
	RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ,				
	UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW:				
	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				
	IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,				
	BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,				
	GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,				
	BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
	AU 2007227504	A1	20070927	AU 2007-227504	20070316
	AU 2007227504	A2	20081030		
	CA 2644724	A1	20070927	CA 2007-2644724	20070316
	EP 1993604	A2	20081126	EP 2007-753268	20070316
	R:				
	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,				
	IS, IT, LI, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR				
	IN 2008KN03682	A	20090220	IN 2008-KN3682	20080909
	US 20090092632	A1	20090409	US 2008-283894	20080915
	CN 101405028	A	20090408	CN 2007-80009505	20080917
	KR 2008103604	A	20081127	KR 2008-725441	20081017
PRAI	US 2006-783490P	P	20060317		
	WO 2007-US6627	W	20070316		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

L2    ANSWER 3 OF 9    CAPLUS    COPYRIGHT 2009 ACS on STN  
 AN    2005:371097    CAPLUS <<LOGINID::20091109>>  
 DN    142:428760  
 TI    Polysaccharide-protein conjugate vaccines preparation  
 IN    Jessouroun, Ellen; Da Silveira, Ivna Alana Freitas Brasileiro; Bastos,  
       Renata Chagas; Frasch, Carl E.;    \*\*\*Lee, Che-Hung Robert\*\*\*  
 PA    The Government of the United States of America, as Represented by the  
       Secretary Department of Health and Human Services, USA  
 SO    PCT Int. Appl., 41 pp.  
       CODEN: PIXXD2  
 DT    Patent  
 LA    English  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005037320	A2	20050428	WO 2004-US26431	20040806
	WO 2005037320	A3	20060105		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2004281630	A1	20050428	AU 2004-281630	20040806
	CA 2535043	A1	20050428	CA 2004-2535043	20040806
	EP 1651262	A2	20060503	EP 2004-809568	20040806
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR			
	BR 2004013323	A	20061010	BR 2004-13323	20040806
	CN 1863554	A	20061115	CN 2004-80028978	20040806
	CN 100423774	C	20081008		
	ZA 2006001688	A	20070530	ZA 2006-1688	20060227
	ZA 2006001689	A	20071227	ZA 2006-1689	20060227
	IN 2006DN01096	A	20070810	IN 2006-DN1096	20060301
	US 20070110762	A1	20070517	US 2006-566898	20061026
PRAI	US 2003-493389P	P	20030806		
	WO 2004-US26431	W	20040806		
OSC.G	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)			
RE.CNT	1	THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD			
		ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L2 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2005:136594 CAPLUS <<LOGINID::20091109>>  
DN 142:217375  
TI Preparation of polysaccharide-protein conjugate for use as vaccines  
IN \*\*\*Lee, Che-Hung Robert\*\*\* ; Frasch, Carl E.  
PA The Government of the United States of America, as Represented by the Secretary Department of Health and Human Services, USA  
SO PCT Int. Appl., 61 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005014037	A2	20050217	WO 2004-US25477	20040806
	WO 2005014037	A3	20060126		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,			

EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
 SN, TD, TG

AU 2004263135	A1	20050217	AU 2004-263135	20040806
CA 2534870	A1	20050217	CA 2004-2534870	20040806
EP 1651261	A2	20060503	EP 2004-786467	20040806
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
BR 2004013309	A	20061010	BR 2004-13309	20040806
CN 1863553	A	20061115	CN 2004-80028977	20040806
ZA 2006001688	A	20070530	ZA 2006-1688	20060227
ZA 2006001689	A	20071227	ZA 2006-1689	20060227
IN 2006DN01095	A	20070810	IN 2006-DN1095	20060301
US 20070141084	A1	20070621	US 2006-566899	20060925
PRAI US 2003-493389P	P	20030806		
WO 2004-US25477	W	20040806		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)  
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 9 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN  
 AN 2006:158654 BIOSIS <<LOGINID::20091109>>  
 DN PREV200600154114  
 TI A method with increased yield for production of polysaccharide-protein  
 conjugate vaccines using hydrazide chemistry.  
 AU \*\*\*Lee, Che-Hung R.\*\*\* [Reprint Author]; Frasch, Carl E.  
 CS Ctr Biol Evaluat and Res, Div Bacterial Prod, Rockville, MD 20852 USA  
 lee\_r@cber.fda.gov  
 SO Abstracts of Papers American Chemical Society, (MAR 28 2004) Vol. 227, No.  
 Part 1, pp. U137.  
 Meeting Info.: 227th National Meeting of the American-Chemical Society.  
 Anaheim, CA, USA. March 28 -April 01, 2004. Amer Chem Soc.  
 CODEN: ACSRAL. ISSN: 0065-7727.  
 DT Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LA English  
 ED Entered STN: 9 Mar 2006  
 Last Updated on STN: 9 Mar 2006

L2 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2004:221628 CAPLUS <<LOGINID::20091109>>  
 TI A method with increased yield for production of polysaccharide-protein  
 conjugate vaccines using hydrazide chemistry  
 AU \*\*\*Lee, Che-Hung R.\*\*\* ; Frasch, Carl E.  
 CS Division of Bacterial Products, Center fot Biologics Evaluation and  
 Research, Rockville, MD, 20852, USA  
 SO Abstracts of Papers, 227th ACS National Meeting, Anaheim, CA, United  
 States, March 28-April 1, 2004 (2004), BIOT-082 Publisher: American  
 Chemical Society, Washington, D. C.  
 CODEN: 69FGKM  
 DT Conference; Meeting Abstract  
 LA English

L2 ANSWER 7 OF 9 EMBASE COPYRIGHT (c) 2009 Elsevier B.V. All rights  
 reserved on STN  
 AN 1996290447 EMBASE <<LOGINID::20091109>>

TI Characterization of the binding of soluble CD14 to human endothelial cells and mechanism for CD14-dependent cell activation by LPS.  
 AU Zhang, Jun-Kui; Morrison, Timothy K.; Falk, Michael C.; Kang, Yuan-Hsu; \*\*\*Lee, Che-Hung, Dr. (correspondence)\*\*\*  
 CS Septic Shock Research Program, Pathobiology Branch, Naval Medical Research Institute, Bethesda, MD, United States.  
 AU \*\*\*Lee, Che-Hung, Dr. (correspondence)\*\*\*  
 CS Code 062, Septic Shock Research Program, Naval Medical Research Institute, Bethesda, MD 20889-5607, United States.  
 AU Zhang, Jun-Kui  
 CS Dept. of Chemistry and Biochemistry, University of Oklahoma, Norman, OK 73019, United States.  
 SO Journal of Endotoxin Research, (1996) Vol. 3, No. 4, pp. 307-315.  
 Refs: 34  
 ISSN: 0968-0519 CODEN: JENREB  
 CY United Kingdom  
 DT Journal; Article  
 FS 018 Cardiovascular Diseases and Cardiovascular Surgery  
 026 Immunology, Serology and Transplantation  
 LA English  
 SL English  
 ED Entered STN: 21 Oct 1996  
 Last Updated on STN: 21 Oct 1996

L2 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1981:133179 CAPLUS <<LOGINID::20091109>>  
 DN 94:133179  
 OREF 94:21707a,21710a  
 TI Structural modifications and their effects on the genetic functions of DNA generated by interactions with benzo[a]pyrene metabolites  
 AU Kakefuda, Tsuyoshi; Mizusawa, Hiroshi; \*\*\*Lee, Che-Hung Robert\*\*\* ; Madigan, Patricia; Feldman, Richard J.  
 CS Lab. Mol. Carcinog., Natl. Cancer Inst., Bethesda, MD, USA  
 SO Jerusalem Symposia on Quantum Chemistry and Biochemistry (1980), 13(Carcinog.: Fundam. Mech. Environ. Eff.), 389-407  
 CODEN: JSQCA7; ISSN: 0075-3696  
 DT Journal; General Review  
 LA English  
 OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L2 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1976:146294 CAPLUS <<LOGINID::20091109>>  
 DN 84:146294  
 OREF 84:23745a,23748a  
 TI Solution conformations of nucleotides and nucleotide coenzymes studied by fast Fourier transform proton and phosphorus-31 nuclear magnetic resonance spectroscopy  
 AU \*\*\*Lee, Che-Hung R.\*\*\*  
 CS State Univ. New York, Albany, NY, USA  
 SO (1975) 257 pp. Avail.: Xerox Univ. Microfilms, Ann Arbor, Mich., Order No. 76-4609  
 From: Diss. Abstr. Int. B 1976, 36(8), 3928  
 DT Dissertation  
 LA English

=> e frasc carl e/au

E1 2 FRASCH C S/AU  
 E2 22 FRASCH CARL/AU  
 E3 213 --> FRASCH CARL E/AU  
 E4 1 FRASCH CARL EDWARD/AU  
 E5 2 FRASCH CARLOS/AU  
 E6 1 FRASCH COURTNEY S/AU  
 E7 2 FRASCH D L/AU  
 E8 1 FRASCH E/AU  
 E9 4 FRASCH E C/AU  
 E10 3 FRASCH E WALTER/AU  
 E11 1 FRASCH ET AL C E/AU  
 E12 1 FRASCH EUGEN/AU

=> s e2-e4 and polysaccharide? and vaccin? and conjugat?

L3 74 ("FRASCH CARL"/AU OR "FRASCH CARL E"/AU OR "FRASCH CARL EDWARD"/  
 AU) AND POLYSACCHARIDE? AND VACCIN? AND CONJUGAT?

=> dup rem l3

PROCESSING COMPLETED FOR L3

L4 36 DUP REM L3 (38 DUPLICATES REMOVED)

=> d 1-

YOU HAVE REQUESTED DATA FROM 36 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 1

AN 2009:1309039 CAPLUS <<LOGINID::20091109>>

TI Preparation of bacterial \*\*\*polysaccharide\*\*\* -protein  
 \*\*\*conjugates\*\*\* : Analytical and manufacturing challenges

AU \*\*\*Frasch, Carl E.\*\*\*

CS Frasch Biologics Consulting, Martinsburg, WV, 25402, USA

SO Vaccine (2009), 27(46), 6468-6470

CODEN: VACCDE; ISSN: 0264-410X

PB Elsevier Ltd.

DT Journal

LA English

L4 ANSWER 2 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN  
 DUPLICATE 2

AN 2009:175602 BIOSIS <<LOGINID::20091109>>

DN PREV200900175602

TI Preparation and characterization of an immunogenic meningococcal group A  
 \*\*\*conjugate\*\*\* \*\*\*vaccine\*\*\* for use in Africa.

AU Lee, Che-Hung [Reprint Author]; Kuo, Wen-Chun; Beri, Suresh; Kapre,  
 Subash; Joshi, Jayant S.; Bouveret, Nancy; LaForce, F. Marc;

\*\*\*Frasch,\*\*\*

\*\*\* Carl E.\*\*\*

CS US FDA, Lab Bacterial Polysaccharides, HFM 428, DBPAP,OVRR,CBER,Ctr Biol  
 Evaluat and Res, NIH Campus,Bldg 29,Room 404,29 Lincoln Ave, Bethesda, MD  
 20892 USA

robert.lee@fda.hhs.gov

SO Vaccine, (JAN 29 2009) Vol. 27, No. 5, pp. 726-732.

CODEN: VACCDE. ISSN: 0264-410X.

DT Article

LA English

ED Entered STN: 4 Mar 2009

Last Updated on STN: 4 Mar 2009

L4 ANSWER 3 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN  
 DUPLICATE 3  
 AN 2009:509876 BIOSIS <<LOGINID::20091109>>  
 DN PREV200900510979  
 TI Bactericidal antibody is the immunologic surrogate of protection against  
 meningococcal disease.  
 AU \*\*\*Frasch, Carl E.\*\*\* [Reprint Author]; Borrow, Ray; Donnelly, John  
 CS Frasc Biol Consulting, POB 986, Martinsburg, WV 25402 USA  
 Cfraschl@juno.com  
 SO Vaccine, (JUN 24 2009) Vol. 27, No. Suppl. 2, pp. B112-B116.  
 CODEN: VACCDE. ISSN: 0264-410X.  
 DT Article  
 LA English  
 ED Entered STN: 26 Aug 2009  
 Last Updated on STN: 26 Aug 2009

L4 ANSWER 4 OF 36 SCISEARCH COPYRIGHT (c) 2009 The Thomson Corporation on  
 STN  
 AN 2009:433134 SCISEARCH <<LOGINID::20091109>>  
 GA The Genuine Article (R) Number: 424YL  
 TI CLINICAL CHARACTERISTICS OF A NOVEL 10-VALENT PNEUMOCOCCAL NON-TYPEABLE  
 Haemophilus influenzae PROTEIN D \*\*\*CONJUGATE\*\*\* \*\*\*VACCINE\*\*\*  
 CANDIDATE (PHiD-CV) Introduction  
 AU Dagan, Ron (Reprint)  
 CS Soroka Univ, Med Ctr, Pediat Infect Dis Unit, POB 151, IL-84101 Beer  
 Sheva, Israel (Reprint)  
 E-mail: rdagan@bgu.ac.il  
 AU Dagan, Ron (Reprint)  
 CS Soroka Univ, Med Ctr, Pediat Infect Dis Unit, IL-84101 Beer Sheva, Israel  
 E-mail: rdagan@bgu.ac.il  
 AU \*\*\*Frasch, Carl\*\*\*  
 CS Frasc Biol Consulting, Martinsburg, VA USA  
 CYA Israel; USA  
 SO PEDIATRIC INFECTIOUS DISEASE JOURNAL, (APR 2009) Vol. 28, No. 4, Supp.  
 [S], pp. S63-S65.  
 ISSN: 0891-3668.  
 PB LIPPINCOTT WILLIAMS & WILKINS, 530 WALNUT ST, PHILADELPHIA, PA 19106-3621  
 USA.  
 DT Editorial; Journal  
 LA English  
 REC Reference Count: 27  
 ED Entered STN: 9 Apr 2009  
 Last Updated on STN: 9 Apr 2009

L4 ANSWER 5 OF 36 EMBASE COPYRIGHT (c) 2009 Elsevier B.V. All rights  
 reserved on STN  
 AN 2009270320 EMBASE <<LOGINID::20091109>>  
 TI Bactericidal antibody is the immunologic surrogate of protection against  
 meningococcal disease.  
 AU \*\*\*Frasch, Carl E. (correspondence)\*\*\*  
 CS Frasc Biologics Consulting, PO Box 986, Martinsburg, WV, USA, 25402,  
 United States. Cfraschl@juno.com  
 AU Borrow, Ray  
 CS Vaccine Evaluation Unit, Health Protection Agency, Manchester Laboratory,  
 PO Box 209, Clinical Sciences Bldg. 2, Manchester, M13 9WZ, United Kingdom  
 .  
 AU Donnelly, John

CS Novartis Vaccines and Diagnostics, Via Fiorentina 1, 53100 Siena, Italy.  
SO Vaccine, (24 Jun 2009) Vol. 27, No. SUPPL. 2, pp. B112-B116.  
Refs: 38  
ISSN: 0264-410X CODEN: VACCDE  
PB Elsevier Ltd, Langford Lane, Kidlington, Oxford, OX5 1GB, United Kingdom.  
PUI S 0264-410X(09)00619-7  
CY United Kingdom  
DT Journal; Article  
FS 004 Microbiology: Bacteriology, Mycology, Parasitology and Virology  
008 Neurology and Neurosurgery  
026 Immunology, Serology and Transplantation  
037 Drug Literature Index  
LA English  
SL English  
ED Entered STN: 1 Jul 2009  
Last Updated on STN: 1 Jul 2009

L4 ANSWER 6 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2008:406701 CAPLUS <<LOGINID::20091109>>  
DN 149:51021  
TI \*\*\*Conjugation\*\*\* chemistry  
AU Lees, Andrew; Puvanesarajah, Velupillai; \*\*\*Frasch, Carl E.\*\*\*  
CS Fina BioSolutions LLC, Rockville, MD, 20850, USA  
SO Pneumococcal Vaccines (2008), 163-174. Editor(s): Siber, George R.;  
Klugman, Keith P.; Makela, P. Helena. Publisher: American Society for  
Microbiology, Washington, D. C.  
CODEN: 69KNDR; ISBN: 978-1-55581-408-3  
DT Conference; General Review  
LA English  
RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN  
DUPLICATE 4  
AN 2008:42941 BIOSIS <<LOGINID::20091109>>  
DN PREV200800043014  
TI Comparison of Neisseria meningitidis serogroup W135 \*\*\*polysaccharide\*\*\*  
-tetanus toxoid \*\*\*conjugate\*\*\* \*\*\*vaccines\*\*\* made by periodate  
activation of O-acetylated, non-O-acetylated and chemically  
de-O-acetylated \*\*\*polysaccharide\*\*\* .  
AU Gudlavalleti, Seshu K. [Reprint Author]; Lee, Che-Hung; Norris, Scott E.;  
Paul-Satyaseela, Maneesh; Vann, Willie F.; \*\*\*Frasch, Carl E.\*\*\*  
CS US FDA, Ctr Biol Evaluat and Res, Lab Bacterial Polysaccharides, Room  
109,Bldg 29,Lincoln Dr, Bethesda, MD 20892 USA  
gudlavalletis@yahoo.com  
SO Vaccine, (NOV 14 2007) Vol. 25, No. 46, pp. 7972-7980.  
CODEN: VACCDE. ISSN: 0264-410X.  
DT Article  
LA English  
ED Entered STN: 27 Dec 2007  
Last Updated on STN: 4 Jan 2008

L4 ANSWER 8 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2006:375252 CAPLUS <<LOGINID::20091109>>  
DN 145:353705  
TI Immune responses to \*\*\*polysaccharide\*\*\* and \*\*\*conjugate\*\*\*  
\*\*\*vaccines\*\*\*



AU \*\*\*Frasch, Carl E.\*\*\*  
 CS Laboratory of Bacterial Polysaccharides, Center for Biologics Evaluation  
 and Research, Rockville, MD, 20852, USA  
 SO Manual of Molecular and Clinical Laboratory Immunology (7th Edition)  
 (2006), 434-443. Editor(s): Detrick, Barbara; Hamilton, Robert G.; Folds,  
 James D. Publisher: American Society for Microbiology, Washington, D. C.  
 CODEN: 69IBCE; ISBN: 978-1-55581-364-2  
 DT Conference; General Review  
 LA English  
 RE.CNT 71 THERE ARE 71 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 36 LIFESCI COPYRIGHT 2009 CSA on STN  
 AN 2007:131059 LIFESCI <<LOGINID::20091109>>  
 TI Use of Opsonophagocytosis for Serological Evaluation of Pneumococcal  
 \*\*\*Vaccines\*\*\*  
 AU Romero-Steiner, Sandra; \*\*\*Frasch, Carl E.\*\*\* ; Carlone, George; Fleck,  
 Roland A.; Goldblatt, David; Nahm, Moon H.  
 CS Centers for Disease Control and Prevention, Atlanta, Georgia 30333. Food  
 and Drug Administration, Bethesda, Maryland 20892. National Institute for  
 Biological Standards and Control, South Mimms, England. Institute of Child  
 Health, University College London, London, England. and University of  
 Alabama at Birmingham, Birmingham, Alabama 35249  
 SO Clinical and Vaccine Immunology [Clin. Vaccine Immunol.], (20060200) vol.  
 13, no. 2, pp. 165-169.  
 ISSN: 1556-6811.  
 DT Journal  
 TC General Review  
 FS F  
 LA English

L4 ANSWER 10 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:371097 CAPLUS <<LOGINID::20091109>>  
 DN 142:428760  
 TI \*\*\*Polysaccharide\*\*\* -protein \*\*\*conjugate\*\*\* \*\*\*vaccines\*\*\*  
 preparation  
 IN Jessouroun, Ellen; Da Silveira, Ivna Alana Freitas Brasileiro; Bastos,  
 Renata Chagas; \*\*\*Frasch, Carl E.\*\*\* ; Lee, Che-Hung Robert  
 PA The Government of the United States of America, as Represented by the  
 Secretary Department of Health and Human Services, USA  
 SO PCT Int. Appl., 41 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2005037320	A2	20050428	WO 2004-US26431	20040806
	WO 2005037320	A3	20060105		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,			
		CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,			
		GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,			
		LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,			
		NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,			
		TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,			
		AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,			

EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,  
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,  
SN, TD, TG

AU 2004281630	A1	20050428	AU 2004-281630	20040806
CA 2535043	A1	20050428	CA 2004-2535043	20040806
EP 1651262	A2	20060503	EP 2004-809568	20040806
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
BR 2004013323	A	20061010	BR 2004-13323	20040806
CN 1863554	A	20061115	CN 2004-80028978	20040806
CN 100423774	C	20081008		
ZA 2006001688	A	20070530	ZA 2006-1688	20060227
ZA 2006001689	A	20071227	ZA 2006-1689	20060227
IN 2006DN01096	A	20070810	IN 2006-DN1096	20060301
US 20070110762	A1	20070517	US 2006-566898	20061026
PRAI US 2003-493389P	P	20030806		
WO 2004-US26431	W	20040806		

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)  
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2005:136594 CAPLUS <<LOGINID::20091109>>  
DN 142:217375  
TI Preparation of \*\*\*polysaccharide\*\*\* -protein \*\*\*conjugate\*\*\* for  
use as \*\*\*vaccines\*\*\*  
IN Lee, Che-Hung Robert; \*\*\*Frasch, Carl E.\*\*\*  
PA The Government of the United States of America, as Represented by the  
Secretary Department of Health and Human Services, USA  
SO PCT Int. Appl., 61 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005014037	A2	20050217	WO 2004-US25477	20040806
	WO 2005014037	A3	20060126		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004263135	A1	20050217	AU 2004-263135	20040806
	CA 2534870	A1	20050217	CA 2004-2534870	20040806
	EP 1651261	A2	20060503	EP 2004-786467	20040806
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	BR 2004013309	A	20061010	BR 2004-13309	20040806
	CN 1863553	A	20061115	CN 2004-80028977	20040806
	ZA 2006001688	A	20070530	ZA 2006-1688	20060227

ZA 2006001689	A	20071227	ZA 2006-1689	20060227
IN 2006DN01095	A	20070810	IN 2006-DN1095	20060301
US 20070141084	A1	20070621	US 2006-566899	20060925
PRAI US 2003-493389P	P	20030806		
WO 2004-US25477	W	20040806		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)  
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 5  
 AN 2005:150495 CAPLUS <<LOGINID::20091109>>  
 DN 142:428177  
 TI Recent developments in Neisseria meningitidis group A \*\*\*conjugate\*\*\*  
 \*\*\*vaccines\*\*\*  
 AU \*\*\*Frasch, Carl E.\*\*\*  
 CS Center for Biologics Evaluation and Research, Division of Bacterial  
 Parasitic and Allergenic Products, Laboratory of Bacterial  
 Polysaccharides, FDA, Rockville, MD, 20852, USA  
 SO Expert Opinion on Biological Therapy (2005), 5(2), 273-280  
 CODEN: EOBTA2; ISSN: 1471-2598  
 PB Ashley Publications Ltd.  
 DT Journal; General Review  
 LA English  
 OSC.G 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS RECORD (10 CITINGS)  
 RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
 STN  
 AN 2006:158654 BIOSIS <<LOGINID::20091109>>  
 DN PREV200600154114  
 TI A method with increased yield for production of \*\*\*polysaccharide\*\*\*  
 -protein \*\*\*conjugate\*\*\* \*\*\*vaccines\*\*\* using hydrazide chemistry.  
 AU Lee, Che-Hung R. [Reprint Author]; \*\*\*Frasch, Carl E.\*\*\*  
 CS Ctr Biol Evaluat and Res, Div Bacterial Prod, Rockville, MD 20852 USA  
 lee\_r@cber.fda.gov  
 SO Abstracts of Papers American Chemical Society, (MAR 28 2004) Vol. 227, No.  
 Part 1, pp. U137.  
 Meeting Info.: 227th National Meeting of the American-Chemical Society.  
 Anaheim, CA, USA. March 28 -April 01, 2004. Amer Chem Soc.  
 CODEN: ACSRAL. ISSN: 0065-7727.  
 DT Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LA English  
 ED Entered STN: 9 Mar 2006  
 Last Updated on STN: 9 Mar 2006

L4 ANSWER 14 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
 STN  
 AN 2006:158644 BIOSIS <<LOGINID::20091109>>  
 DN PREV200600154104  
 TI A method with increased yield for production of \*\*\*polysaccharide\*\*\*  
 -protein \*\*\*conjugate\*\*\* \*\*\*vaccines\*\*\* using hydrazide chemistry.  
 AU Lee, Cho-Hung R. [Reprint Author]; \*\*\*Frasch, Carl E.\*\*\*  
 CS Ctr Biol Evaluat and Res, Div Bacterial Prod, Rockville, MD 20852 USA  
 lee\_r@cber.fda.gov

SO Abstracts of Papers American Chemical Society, (MAR 28 2004) Vol. 227, No. Part 1, pp. U135.  
Meeting Info.: 227th National Meeting of the American-Chemical Society. Anaheim, CA, USA. March 28 -April 01, 2004. Amer Chem Soc.  
CODEN: ACSRAL. ISSN: 0065-7727.

DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 9 Mar 2006  
Last Updated on STN: 9 Mar 2006

L4 ANSWER 15 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2004:221628 CAPLUS <<LOGINID::20091109>>  
TI A method with increased yield for production of \*\*\*polysaccharide\*\*\*  
-protein \*\*\*conjugate\*\*\* \*\*\*vaccines\*\*\* using hydrazide chemistry  
AU Lee, Che-Hung R.; \*\*\*Frasch, Carl E.\*\*\*  
CS Division of Bacterial Products, Center for Biologics Evaluation and Research, Rockville, MD, 20852, USA  
SO Abstracts of Papers, 227th ACS National Meeting, Anaheim, CA, United States, March 28-April 1, 2004 (2004), BIOT-082 Publisher: American Chemical Society, Washington, D. C.  
CODEN: 69FGKM  
DT Conference; Meeting Abstract  
LA English

L4 ANSWER 16 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 6  
AN 2003:649462 CAPLUS <<LOGINID::20091109>>  
DN 140:161847  
TI Enzyme-linked immunosorbent assay for quantitation of human antibodies to pneumococcal \*\*\*polysaccharides\*\*\*  
AU Wernette, Catherine M.; \*\*\*Frasch, Carl E.\*\*\* ; Madore, Dace; Carlone, George; Goldblatt, David; Plikaytis, Brian; Benjamin, William; Quataert, Sally A.; Hildreth, Steve; Sikkema, Daniel J.; Kayhty, Helena; Jonsdottir, Ingileif; Nahm, Moon H.  
CS Department of Pathology and Microbiology, University of Alabama at Birmingham, Birmingham, AL, USA  
SO Clinical and Diagnostic Laboratory Immunology (2003), 10(4), 514-519  
CODEN: CDIMEN; ISSN: 1071-412X  
PB American Society for Microbiology  
DT Journal; General Review  
LA English

OSC.G 59 THERE ARE 59 CAPLUS RECORDS THAT CITE THIS RECORD (59 CITINGS)  
RE.CNT 72 THERE ARE 72 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 7  
AN 2003:966575 CAPLUS <<LOGINID::20091109>>  
DN 140:109652  
TI Protective immunity of pneumococcal glycoconjugates  
AU Lee, Chi-Jen; Lee, Lucia H.; \*\*\*Frasch, Carl E.\*\*\*  
CS Center for Biologics Evaluation and Research, Food and Drug Administration, Rockville, MD, 20852-1448, USA  
SO Critical Reviews in Microbiology (2003), 29(4), 333-349  
CODEN: CRVMAC; ISSN: 1040-841X  
PB CRC Press LLC  
DT Journal; General Review  
LA English

OSC.G 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)  
RE.CNT 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 18 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2004:499741 CAPLUS <<LOGINID::20091109>>  
DN 141:205178  
TI Neisseria meningitidis \*\*\*vaccines\*\*\*  
AU \*\*\*Frasch, Carl E.\*\*\* ; Bash, Margaret C.  
CS Laboratory of Bacterial Polysaccharides, Center for Biologics Evaluation  
and Research, FDA, Bethesda, MD, USA  
SO New Bacterial Vaccines (2003), 229-243. Editor(s): Ellis, Ronald W.;  
Brodeur, Bernard R. Publisher: Landes Bioscience, Georgetown, Tex.  
CODEN: 69FNI7; ISBN: 0-306-47832-3  
DT Conference; General Review  
LA English  
RE.CNT 85 THERE ARE 85 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2003:179139 CAPLUS <<LOGINID::20091109>>  
TI Antibody responses to encapsulated group C meningococcal  
\*\*\*polysaccharide\*\*\* -tetanus toxoid \*\*\*conjugates\*\*\*  
AU \*\*\*Frasch, Carl E.\*\*\* ; Lee, Che-Hung; Zhang, Jizhong  
CS Division of Bacterial Products, Center for Biologics Evaluation and  
Research, FDA, Rockville, MD, 20852, USA  
SO Abstracts of Papers, 225th ACS National Meeting, New Orleans, LA, United  
States, March 23-27, 2003 (2003), BIOT-146 Publisher: American Chemical  
Society, Washington, D. C.  
CODEN: 69DSA4  
DT Conference; Meeting Abstract  
LA English

L4 ANSWER 20 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
STN  
AN 2003:381914 BIOSIS <<LOGINID::20091109>>  
DN PREV200300381914  
TI Antibody responses to encapsulated group C meningococcal  
\*\*\*polysaccharide\*\*\* -tetanus toxoid \*\*\*conjugates\*\*\* .  
AU \*\*\*Frasch, Carl E.\*\*\* [Reprint Author]; Lee, Che-Hung; Zhang, Jizhong  
CS Division of Bacterial Products, Center for Biologics Evaluation and  
Research, FDA, 1401 Rockville Pike, HFM-428, Rockville, MD, 20852, USA  
frasch@cber.fda.gov  
SO Abstracts of Papers American Chemical Society, (2003) Vol. 225, No. 1-2,  
pp. BIOT 146. print.  
Meeting Info.: 225th American Chemical Society (ACS) National Meeting. New  
Orleans, LA, USA. March 23-27, 2003. American Chemical Society.  
ISSN: 0065-7727 (ISSN print).  
DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LA English  
ED Entered STN: 20 Aug 2003  
Last Updated on STN: 20 Aug 2003

L4 ANSWER 21 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
STN DUPLICATE 8  
AN 2002:402598 BIOSIS <<LOGINID::20091109>>

DN PREV200200402598  
 TI Effect of O acetylation of Neisseria meningitidis serogroup A capsular  
 \*\*\*polysaccharide\*\*\* on development of functional immune responses.  
 AU Berry, David S.; Lynn, Freyja; Lee, Che-Hung; \*\*\*Frasch, Carl E.\*\*\* ;  
 Bash, Margaret C. [Reprint author]  
 CS Division of Bacterial, Parasitic and Allergenic Products, Center for  
 Biologics Evaluation and Research, 1401 Rockville Pike, HFM-428,  
 Rockville, MD, 20852, USA  
 mbash@helix.nih.gov  
 SO Infection and Immunity, (July, 2002) Vol. 70, No. 7, pp. 3707-3713. print.  
 CODEN: INFIBR. ISSN: 0019-9567.  
 DT Article  
 LA English  
 ED Entered STN: 24 Jul 2002  
 Last Updated on STN: 24 Jul 2002

L4 ANSWER 22 OF 36 EMBASE COPYRIGHT (c) 2009 Elsevier B.V. All rights  
 reserved on STN DUPLICATE 9  
 AN 2002126603 EMBASE <<LOGINID::20091109>>  
 TI Development and evaluation of pneumococcal \*\*\*conjugate\*\*\*  
 \*\*\*vaccines\*\*\* : Clinical trials and control tests.  
 AU Lee, Lucia H. (correspondence); Lee, Chi-Jen; \*\*\*Frasch, Carl E.\*\*\*  
 CS Ctr. for Biologics Evaluation/Res., Food and Drug Administration,  
 Rockville, MD 20852-1448, United States.  
 SO Critical Reviews in Microbiology, (2002) Vol. 28, No. 1, pp. 27-41.  
 Refs: 100  
 ISSN: 1040-841X CODEN: CRVMAC  
 CY United States  
 DT Journal; General Review; (Review)  
 FS 037 Drug Literature Index  
 004 Microbiology: Bacteriology, Mycology, Parasitology and Virology  
 LA English  
 SL English  
 ED Entered STN: 25 Apr 2002  
 Last Updated on STN: 25 Apr 2002

L4 ANSWER 23 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
 STN DUPLICATE 10  
 AN 2001:285910 BIOSIS <<LOGINID::20091109>>  
 DN PREV200100285910  
 TI Immunogenicity in mice of pneumococcal glycoconjugate \*\*\*vaccines\*\*\*  
 using pneumococcal protein carriers.  
 AU Lee, Chi-Jen [Reprint author]; Wang, Theresa R.; \*\*\*Frasch, Carl E.\*\*\*  
 CS Center for Biologics Evaluation and Research, Food and Drug  
 Administration, 1401 Rockville Pike, NIH Building 29, Room 405, Rockville,  
 MD, 20892, USA  
 SO Vaccine, (30 April, 2001) Vol. 19, No. 23-24, pp. 3216-3225. print.  
 CODEN: VACCDE. ISSN: 0264-410X.  
 DT Article  
 LA English  
 ED Entered STN: 13 Jun 2001  
 Last Updated on STN: 19 Feb 2002

L4 ANSWER 24 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
 STN  
 AN 2001:258334 BIOSIS <<LOGINID::20091109>>  
 DN PREV200100258334

TI Antibody avidity and protective immunity elicited by pneumococcal type 9V  
\*\*\*conjugate\*\*\* \*\*\*vaccines\*\*\* .  
AU Lee, Chi-Jen [Reprint author]; \*\*\*Frasch, Carl E.\*\*\* [Reprint author]  
CS Center for Biologics Evaluation and Research, FDA, 1401 Rockville Pike,  
FHM-428, Rockville, MD, 20852-1448, USA  
SO FASEB Journal, (March 8, 2001) Vol. 15, No. 5, pp. A1034. print.  
Meeting Info.: Annual Meeting of the Federation of American Societies for  
Experimental Biology on Experimental Biology 2001. Orlando, Florida, USA.  
March 31-April 04, 2001.  
CODEN: FAJOEC. ISSN: 0892-6638.  
DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LA English  
ED Entered STN: 30 May 2001  
Last Updated on STN: 19 Feb 2002

L4 ANSWER 25 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
STN DUPLICATE 11

AN 2001:225839 BIOSIS <<LOGINID::20091109>>  
DN PREV200100225839

TI Pneumococcal type 22F \*\*\*polysaccharide\*\*\* absorption improves the  
specificity of a pneumococcal- \*\*\*polysaccharide\*\*\* enzyme-linked  
immunosorbent assay.

AU Concepcion, Nelydia F.; \*\*\*Frasch, Carl E.\*\*\* [Reprint author]  
CS Division of Bacterial Products, CBER, 1401 Rockville Pike, HFM-428,  
Rockville, MD, 20852, USA  
frasch@cber.fda.gov

SO Clinical and Diagnostic Laboratory Immunology, (March, 2001) Vol. 8, No.  
2, pp. 266-272. print.  
ISSN: 1071-412X.

DT Article  
LA English  
ED Entered STN: 9 May 2001  
Last Updated on STN: 18 Feb 2002

L4 ANSWER 26 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
STN DUPLICATE 12

AN 2001:462306 BIOSIS <<LOGINID::20091109>>  
DN PREV200100462306

TI Quantification of bacterial \*\*\*polysaccharides\*\*\* by the purpald  
assay: Measurement of periodate-generated formaldehyde from glycol in the  
repeating unit.

AU Lee, Che-Hung [Reprint author]; \*\*\*Frasch, Carl E.\*\*\* [Reprint author]  
CS Laboratory of Bacterial Polysaccharides, Division of Bacterial, Parasitic  
and Allergenic Products OVRP, CBER, FDA, 8800 Rockville Pike, Bethesda,  
MD, 20892, USA

SO Analytical Biochemistry, (September 1, 2001) Vol. 296, No. 1, pp. 73-82.  
print.  
CODEN: ANBCA2. ISSN: 0003-2697.

DT Article  
LA English  
ED Entered STN: 3 Oct 2001  
Last Updated on STN: 22 Feb 2002

L4 ANSWER 27 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
STN DUPLICATE 13

AN 2001:472521 BIOSIS <<LOGINID::20091109>>

DN PREV200100472521  
 TI Use of physical and chemical methods to assess the stability of bacterial  
 \*\*\*polysaccharide\*\*\* and \*\*\*polysaccharide\*\*\* -protein  
 \*\*\*conjugate\*\*\* \*\*\*vaccines\*\*\* .  
 AU \*\*\*Frasch, Carl E.\*\*\* [Reprint author]; Lee, Che-Hung [Reprint author]  
 CS Division of Bacterial Products, Center for Biologics Evaluation and  
 Research, FDA, 1401 Rockville Pike, HFM-428, Rockville, MD, 20852, USA  
 frasch@cber.fda.gov  
 SO Abstracts of Papers American Chemical Society, (2001) Vol. 222, No. 1-2,  
 pp. CARB51. print.  
 Meeting Info.: 222nd National Meeting of the American Chemical Society.  
 Chicago, Illinois, USA. August 26-30, 2001. American Chemical Society.  
 CODEN: ACSRAL. ISSN: 0065-7727.  
 DT Conference; (Meeting)  
 Conference; Abstract; (Meeting Abstract)  
 LA English  
 ED Entered STN: 10 Oct 2001  
 Last Updated on STN: 23 Feb 2002

L4 ANSWER 28 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2001:197354 CAPLUS <<LOGINID::20091109>>  
 TI Use of physical and chemical methods for characterization of multivalent  
 pneumococcal \*\*\*conjugate\*\*\* \*\*\*vaccines\*\*\*  
 AU \*\*\*Frasch, Carl E.\*\*\* ; Lee, Che-Hung  
 CS Division of Bacterial Products, Center for Biologics Evaluation and  
 Research, FDA, Rockville, MD, 20852, USA  
 SO Abstracts of Papers, 221st ACS National Meeting, San Diego, CA, United  
 States, April 1-5, 2001 (2001) BIOT-047  
 CODEN: 69FZD4  
 PB American Chemical Society  
 DT Journal; Meeting Abstract  
 LA English

L4 ANSWER 29 OF 36 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1999:539753 CAPLUS <<LOGINID::20091109>>  
 TI Quality control of Type B \*\*\*conjugate\*\*\* \*\*\*vaccines\*\*\* using  
 physical and chemical methods.  
 AU \*\*\*Frasch, Carl E.\*\*\* ; Lee, Che-Hung  
 CS Division of Bacterial Products, Division of Bacterial Products, Rockville,  
 MD, 20852, USA  
 SO Book of Abstracts, 218th ACS National Meeting, New Orleans, Aug. 22-26  
 (1999), CARB-020 Publisher: American Chemical Society, Washington, D. C.  
 CODEN: 67ZJA5  
 DT Conference; Meeting Abstract  
 LA English

L4 ANSWER 30 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
 STN DUPLICATE 14  
 AN 1999:35401 BIOSIS <<LOGINID::20091109>>  
 DN PREV199900035401  
 TI Estimation of group B streptococcus type III \*\*\*polysaccharide\*\*\*  
 -specific antibody concentrations in human sera is antigen dependent.  
 AU Bhushan, Reva [Reprint author]; Anthony, Bascom F.; \*\*\*Frasch, Carl\*\*\*  
 \*\*\* E.\*\*\*  
 CS Lab. Bacterial Polysaccharides, Div. Bacterial Products, Cent. Biol.,  
 Evaluation Res., 29 Lincoln Dr., Bethesda, MD 20892, USA  
 SO Infection and Immunity, (Dec., 1998) Vol. 66, No. 12, pp. 5848-5853.



print.  
 CODEN: INFIBR. ISSN: 0019-9567.

DT Article  
 LA English  
 ED Entered STN: 3 Feb 1999  
 Last Updated on STN: 3 Feb 1999

L4 ANSWER 31 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
 STN DUPLICATE 15  
 AN 1997:152630 BIOSIS <<LOGINID::20091109>>  
 DN PREV199799451833  
 TI Bactericidal antibody responses of juvenile rhesus monkeys immunized with  
 group B Neisseria meningitidis capsular \*\*\*polysaccharide\*\*\* -protein  
 \*\*\*conjugate\*\*\* \*\*\*vaccines\*\*\* .  
 AU Zollinger, Wendell D. [Reprint author]; Moran, Ellen E.; Devi,  
 Sarvamangala J. N.; \*\*\*Frasch, Carl E.\*\*\*  
 CS Dep. Bacterial Diseases, Walter Reed Army Inst. Res., Washington, DC  
 20307-5100, USA  
 SO Infection and Immunity, (1997) Vol. 65, No. 3, pp. 1053-1060.  
 CODEN: INFIBR. ISSN: 0019-9567.

DT Article  
 LA English  
 ED Entered STN: 15 Apr 1997  
 Last Updated on STN: 15 Apr 1997

L4 ANSWER 32 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
 STN DUPLICATE 16  
 AN 1997:152629 BIOSIS <<LOGINID::20091109>>  
 DN PREV199799451832  
 TI Preclinical evaluation of group B Neisseria meningitidis and Escherichia  
 coli K92 capsular \*\*\*polysaccharide\*\*\* -protein \*\*\*conjugate\*\*\*  
 \*\*\*vaccines\*\*\* in juvenile rhesus monkeys.  
 AU Devi, Sarvamangala J. N.; Zollinger, Wendell D.; Snoy, Phil J.; Tai,  
 Joseph Y.; Costantini, Paolo; Norelli, Francesco; Rappuoli, Rino;  
 \*\*\*Frasch, Carl E.\*\*\* [Reprint author]  
 CS Division Bacterial Products, HFM 428, Office Vaccine Res. Review, Cent.  
 Biol. Evaluation Res., U.S. Food Drug Administration, 1401 Rockville Pk.,  
 Rockville, MD 20852-1448, USA  
 SO Infection and Immunity, (1997) Vol. 65, No. 3, pp. 1045-1052.  
 CODEN: INFIBR. ISSN: 0019-9567.

DT Article  
 LA English  
 ED Entered STN: 15 Apr 1997  
 Last Updated on STN: 15 Apr 1997

L4 ANSWER 33 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
 STN  
 AN 1997:282616 BIOSIS <<LOGINID::20091109>>  
 DN PREV199799581819  
 TI Validation of antibody values to pneumococcal reference serum lot 89SF by  
 cross-standardization (C-S).  
 AU Concepcion, N. F.; \*\*\*Frasch, Carl E.\*\*\*  
 CS CBER, FDA, 29 Lincoln Drive, Bethesda, MD, USA  
 SO Abstracts of the General Meeting of the American Society for Microbiology,  
 (1997) Vol. 97, No. 0, pp. 182.  
 Meeting Info.: 97th General Meeting of the American Society for  
 Microbiology. Miami Beach, Florida, USA. May 4-8, 1997.

ISSN: 1060-2011.

DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
Conference; (Meeting Poster)

LA English

ED Entered STN: 3 Jul 1997  
Last Updated on STN: 3 Jul 1997

L4 ANSWER 34 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
STN DUPLICATE 17

AN 1996:422535 BIOSIS <<LOGINID::20091109>>  
DN PREV199699153591

TI Binding diversity of monoclonal antibodies to alpha(2 fvdarw 8) polysialic  
acid \*\*\*conjugated\*\*\* to outer membrane vesicle via adipic acid  
dihydrazide.

AU Devi, Sarvamangala J. N. [Reprint author]; Karpas, Arthur B.;  
\*\*\*Frasch,\*\*\*  
\*\*\* Carl E.\*\*\*

CS Div. Bacterial Products, HFM 428, Office Vaccine Res. Review, Cent. Biol.  
Eval. Res., US Food Drug Administration, Rockville Pike, Rockville, MD  
20852-1448, USA

SO FEMS Immunology and Medical Microbiology, (1996) Vol. 14, No. 4, pp.  
211-220.  
ISSN: 0928-8244.

DT Article

LA English

ED Entered STN: 26 Sep 1996  
Last Updated on STN: 5 Nov 1996

L4 ANSWER 35 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
STN DUPLICATE 18

AN 1995:409454 BIOSIS <<LOGINID::20091109>>  
DN PREV199598423754

TI Capsular \*\*\*polysaccharide\*\*\* -protein \*\*\*conjugate\*\*\*  
\*\*\*vaccines\*\*\* of carbotype 1 Vibrio vulnificus: Construction,  
immunogenicity, and protective efficacy in a murine model.

AU Devi, Sarvamangala J. N.; Hayat, Unaiza; \*\*\*Frasch, Carl E.\*\*\* ;  
Kreger, Arnold S.; Morris, J. Glenn, Jr. [Reprint author]

CS Infectious Diseases Section, VA Med. Cent., 10 N. Greene St., Room 5D139,  
Baltimore, MD 21201, USA

SO Infection and Immunity, (1995) Vol. 63, No. 8, pp. 2906-2911.  
CODEN: INFIBR. ISSN: 0019-9567.

DT Article

LA English

ED Entered STN: 27 Sep 1995  
Last Updated on STN: 27 Sep 1995

L4 ANSWER 36 OF 36 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on  
STN

AN 1994:415027 BIOSIS <<LOGINID::20091109>>  
DN PREV199497428027

TI Regulatory perspectives in \*\*\*vaccine\*\*\* licensure.

AU \*\*\*Frasch, Carl E.\*\*\*

CS Cent. Biol. Eval. Res., Bethesda, MD, USA

SO Ellis, R. W. [Editor]; Granoff, D. M. [Editor]. Infectious Disease and  
Therapy, (1994) pp. 435-453. Infectious Disease and Therapy; Development  
and clinical uses of Haemophilus b conjugate vaccines.

Publisher: Marcel Dekker, Inc., 270 Madison Avenue, New York, New York  
10016, USA; Marcel Dekker, Inc., Basel, Switzerland. Series: Infectious  
Disease and Therapy.  
ISSN: 1043-2981. ISBN: 0-8247-9186-X.

DT Book  
Book; (Book Chapter)  
LA English  
ED Entered STN: 3 Oct 1994  
Last Updated on STN: 3 Oct 1994

=> s conjugate? and vaccin? and polysaccharide? and oxidiz? and aldehyde? and  
(hydrazine? or adipic) and (hydrazide? or dihydrazide?)  
L5 3 CONJUGATE? AND VACCIN? AND POLYSACCHARIDE? AND OXIDIZ? AND ALDEH  
YDE? AND (HYDRAZINE? OR ADIPIC) AND (HYDRAZIDE? OR DIHYDRAZIDE?)

=> dup rem l5  
PROCESSING COMPLETED FOR L5  
L6 3 DUP REM L5 (0 DUPLICATES REMOVED)

=> d 1-  
YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L6 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 2009:426211 CAPLUS <<LOGINID::20091109>>  
DN 150:421151  
TI Methods for preparing complex multivalent immunogenic \*\*\*conjugates\*\*\*  
IN Lee, Che-Hung Robert  
PA The Government of the United States of America as Represented by the  
Secretary of the Department of, USA  
SO U.S. Pat. Appl. Publ., 62pp., Cont.-in-part of Appl. No.  
PCT/US2007/006627.  
CODEN: USXXCO

DT Patent  
LA English  
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	US 20090092632	A1	20090409	US 2008-283894	20080915
	WO 2007109129	A2	20070927	WO 2007-US6627	20070316
	WO 2007109129	A3	20071108		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
PRAI	US 2006-783490P	P	20060317		
	WO 2007-US6627	A2	20070316		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

L6 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:371097 CAPLUS <<LOGINID::20091109>>  
 DN 142:428760  
 TI \*\*\*Polysaccharide\*\*\* -protein \*\*\*conjugate\*\*\* \*\*\*vaccines\*\*\*  
 preparation  
 IN Jessouroun, Ellen; Da Silveira, Ivna Alana Freitas Brasileiro; Bastos,  
 Renata Chagas; Frasch, Carl E.; Lee, Che-Hung Robert  
 PA The Government of the United States of America, as Represented by the  
 Secretary Department of Health and Human Services, USA  
 SO PCT Int. Appl., 41 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005037320	A2	20050428	WO 2004-US26431	20040806
	WO 2005037320	A3	20060105		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	AU 2004281630	A1	20050428	AU 2004-281630	20040806
	CA 2535043	A1	20050428	CA 2004-2535043	20040806
	EP 1651262	A2	20060503	EP 2004-809568	20040806
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR			
	BR 2004013323	A	20061010	BR 2004-13323	20040806
	CN 1863554	A	20061115	CN 2004-80028978	20040806
	CN 100423774	C	20081008		
	ZA 2006001688	A	20070530	ZA 2006-1688	20060227
	ZA 2006001689	A	20071227	ZA 2006-1689	20060227
	IN 2006DN01096	A	20070810	IN 2006-DN1096	20060301
	US 20070110762	A1	20070517	US 2006-566898	20061026
PRAI	US 2003-493389P	P	20030806		
	WO 2004-US26431	W	20040806		
OSC.G	1	THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)			
RE.CNT	1	THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD			
		ALL CITATIONS AVAILABLE IN THE RE FORMAT			

L6 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:136594 CAPLUS <<LOGINID::20091109>>  
 DN 142:217375  
 TI Preparation of \*\*\*polysaccharide\*\*\* -protein \*\*\*conjugate\*\*\* for  
 use as \*\*\*vaccines\*\*\*  
 IN Lee, Che-Hung Robert; Frasch, Carl E.  
 PA The Government of the United States of America, as Represented by the  
 Secretary Department of Health and Human Services, USA  
 SO PCT Int. Appl., 61 pp.

CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005014037	A2	20050217	WO 2004-US25477	20040806
	WO 2005014037	A3	20060126		
	W:				
	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004263135	A1	20050217	AU 2004-263135	20040806
	CA 2534870	A1	20050217	CA 2004-2534870	20040806
	EP 1651261	A2	20060503	EP 2004-786467	20040806
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
	BR 2004013309	A	20061010	BR 2004-13309	20040806
	CN 1863553	A	20061115	CN 2004-80028977	20040806
	ZA 2006001688	A	20070530	ZA 2006-1688	20060227
	ZA 2006001689	A	20071227	ZA 2006-1689	20060227
	IN 2006DN01095	A	20070810	IN 2006-DN1095	20060301
	US 20070141084	A1	20070621	US 2006-566899	20060925
PRAI	US 2003-493389P	P	20030806		
	WO 2004-US25477	W	20040806		

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OSC.G 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT